THE MAIN RANGE GUIDE

JOB DONE

MADE IN BRITAIN

The Main range of affordable combi, system and heat only boilers, cylinders and water heaters.

MAIN HEATING

WITH MAIN IT'S JOB DONE

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High efficiency Main Combi boiler, featuring tried and tested technology.

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This heat only boiler has the highest possible efficiency rating – and comes in 5 outputs to suit any job.

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Fulfils the hot water requirements of a range of domestic properties. Available as a direct and indirect model.

Main solar unvented hot water cylinder Page 16
Fulfils the hot water requirements of a range of domestic properties. Compatible with a range of solar applications. Available as a direct and indirect model.

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Main offers a comprehensive aftersales service, expert technical advice and a range of training courses.

At Main, we only offer products and services that are straightforward, effective, efficient – and don't break the bank.

That means a wide range of reliable, easy-to-install, low maintenance boilers, cylinders and water heaters – as well as a range of heating controls that save your customers even more money. On top of all that, Main training and support services are there to offer help when you want it.

It's everything you need. It's JOB DONE.

Our range

Main has a wide range of award-winning combi, system and heat only boilers – in a range of outputs to suit every job. So whether you're replacing an old boiler or installing a new system, we have everything you need to get the job done.

Of course, we don't just offer boilers and accessories, we also have a range of unvented hot water cylinders to complement them. You'll find all the details you need on all our products in this easy-to-understand brochure – including technical specifications and flue options.

Our service

To make it easier for you to get the job done, we offer FREE training courses and technical support, so you'll always have the very latest Main product knowledge. And because our dedicated training centres are spread across the UK, you'll always be within easy reach, wherever you are. See page 27 for details.

Although our products are easy to install and simple to maintain, sometimes you just need a bit of help and advice. That's why we also have **heateam** – our service division with a dedicated service centre and a field of over 280 engineers.

You can reach them on 0844 871 1570 and there's more about them on page 27.

Our heritage

We've been designing and building boilers in the UK for more than 75 years, working to the highest standards and ensuring the highest quality.

It's given us a proud reputation for excellence in our industry – a reputation that's strengthened with each outstandingly reliable boiler, cylinder or water heater we develop.

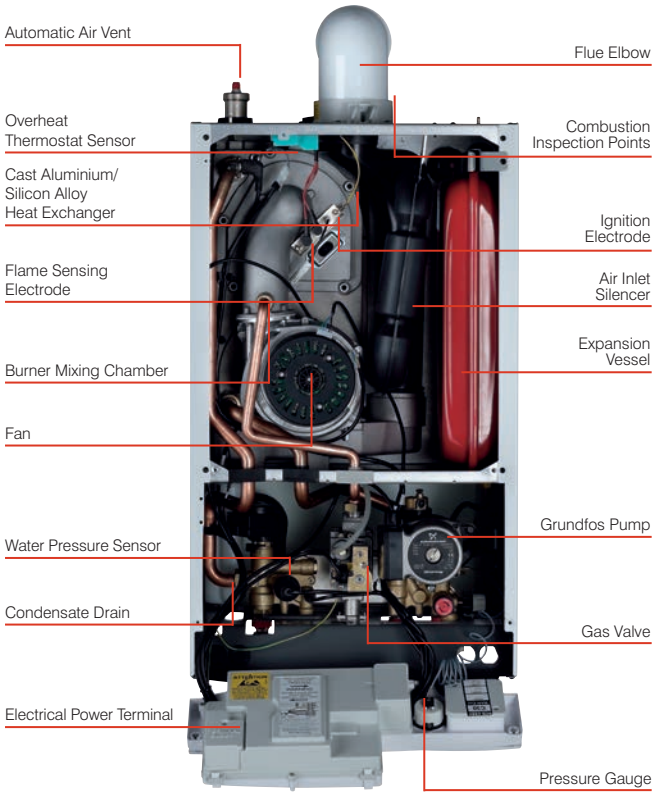
It all means that when you install Main, you install a product you can depend on to get the job done.

THE MAIN COMBI ECO ELITE

PERFECT FOR YOUR CUSTOMERS:

- **Simple and reliable Main technology**
- **Provides energy-efficient heating and hot water**
- **Instantaneous hot water, 24/7**

NOW WITH CLOCK AND FILLING LOOP AS STANDARD



Easy installation

- Like all our boilers, the Combi Eco Elite range is easy to install.
- A free one-piece pre-plumbing jig is included as standard helping you get the pipework in the right place, first time.
- Electrical connections are housed separately to the PCB, making the job quick and easy to finish.

High efficiency

- All Combi Eco Elite boilers have a SEDBUK Band A rating and low Nox emissions. That's better for the planet and better for your customers.

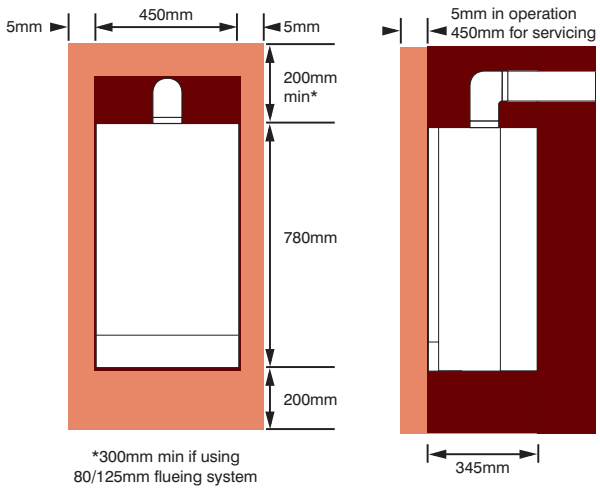
Low maintenance

- Built entirely in the UK, using high quality and well-finished components such as a Grundfos pump.
- Layout of components allows for straightforward and speedy servicing and repairs.
- If something does go wrong, though, you can rest assured that our 2-year parts and labour warranty† is there to back you up.

† See page 27 for more details.

For specifications please see page 10 and for flue options see page 22.

Dimensions and minimum clearances



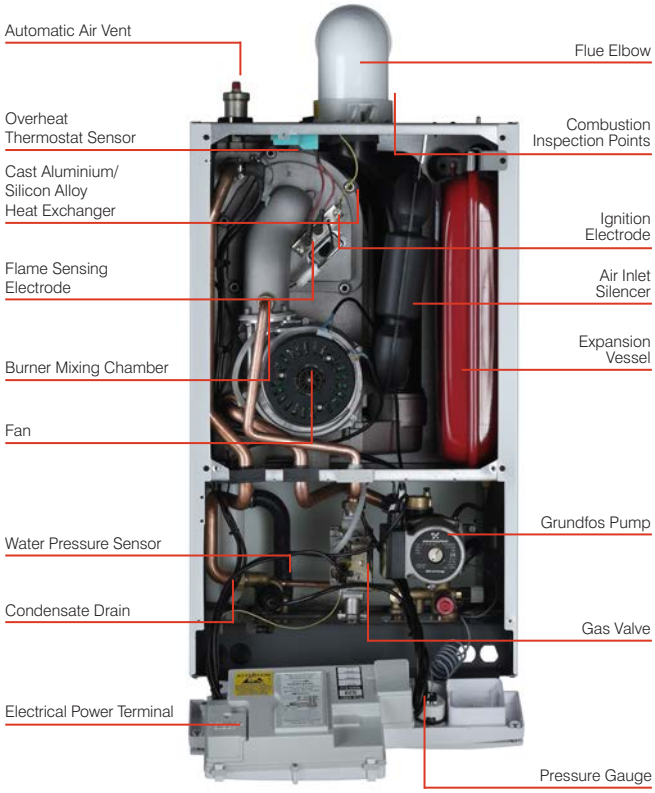
Flap down on boiler for illustration purposes.

THE MAIN SYSTEM ECO ELITE

PERFECT FOR YOUR CUSTOMERS:

- **Simple and reliable Main technology**
- **Providing energy efficient heating and domestic hot water**
- **Easy to use, intuitive controls**

NOW WITH NEW LOOK CONTROL PANEL



Easy installation

- Like all our boilers, the System Eco Elite range is easy to install.
- A free one-piece pre-plumbing jig is included as standard helping you get the pipework in the right place, first time.
- Electrical connections are housed separately to the PCB, making the job quick and easy to finish.

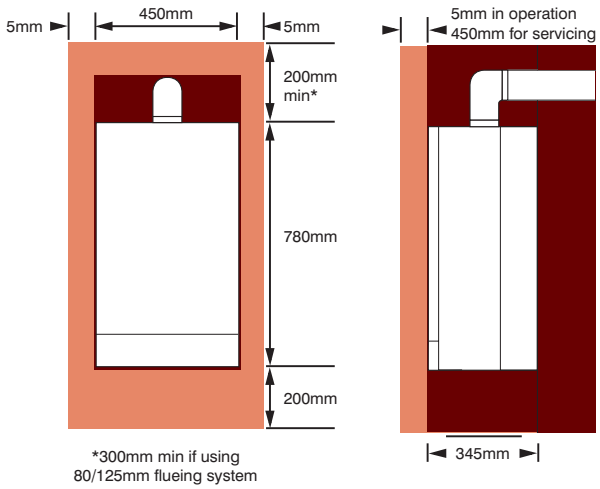
High efficiency

- All System Eco Elite boilers have a SEDBUK Band A rating and low Nox emissions. That's better for the planet and better for your customers.

Low maintenance

- Built entirely in the UK, using high quality and well-finished components such as a Grundfos pump.
- Layout of components allows for straightforward and speedy servicing and repairs.
- Complete with a built in pump overrun and integral system bypass to prolong the life of the boiler.
- If something does go wrong, though, you can rest assured that our 2-year parts and labour warranty† is there to back you up.

Dimensions and minimum clearances



† See page 27 for more details.

For specifications please see page 10 and for flue options see page 22.

THE SYSTEM ECO ELITE IS DESIGNED TO BE COMPATIBLE WITH OUR UNVENTED CYLINDER OFFERING THE COMPLETE SOLUTION.
SEE PAGE 12 FOR DETAILS.
JOB DONE

THE MAIN HEA

PERFECT FOR YOUR CUSTOMERS:

- **Providing energy efficient heating**
- **A wide range of outputs to suit different sized properties**
- **Compact cupboard fit design**

Easy installation

- A one piece pre-plumbing jig is included as standard helping you get the pipework in the right place, first time.
- Electrical connections are housed separately to the PCB, making the job quick and easy to finish.
- It's low in weight, compact and has minimal installation clearances, and can fit in an over-the-counter kitchen cupboard.

High efficiency

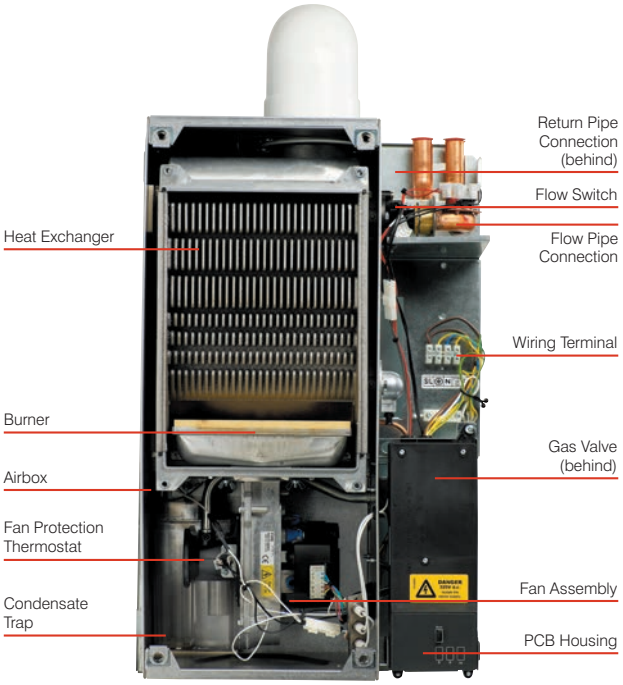
- All Main Heat Only boilers have a SEDBUK Band A rating and low Nox emissions. That's better for the planet and better for your customers.

Low maintenance

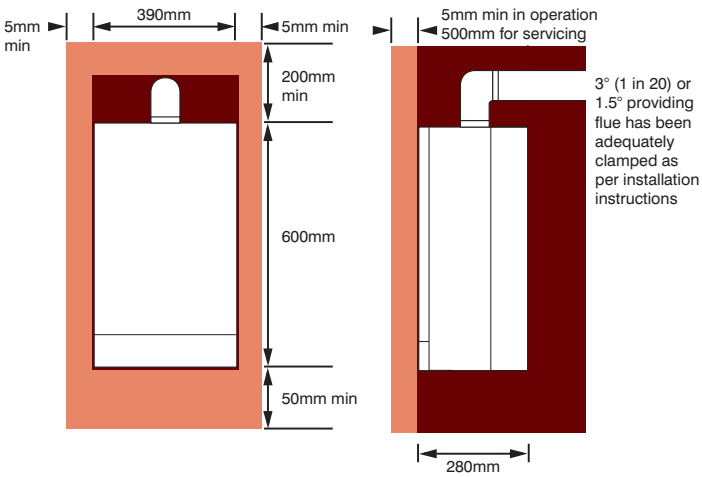
- Built entirely in the UK, using high quality and well-finished components such as a Grundfos pump.
- Layout of components allows for straightforward and speedy servicing and repairs.
- If something does go wrong, though, you can rest assured that our 2-year parts and labour warranty† is there to back you up.

† See page 27 for more details.

For specifications please see page 11 and for flue options see page 23.



Dimensions and minimum clearances



Condensation pipe not shown.

ECO ELITE SPECIFICATIONS

Model	Units	Main Combi 25 Eco Elite	Main Combi 30 Eco Elite	Main System 24 Eco Elite	Main System 28 Eco Elite
Boiler only code		7210777	7210778	7210827	7210828
Boiler (including 24 hr mechanical clock & rigid filling loop) & standard flue code		7210779	7210780	N/A	N/A
Controls					
User adjustable CH (combi only) & DHW temperature		Yes	Yes	Yes	Yes
Covered controls		Yes	Yes	Yes	Yes
Fault status display		Yes	Yes	Yes	Yes
Integral 24 hr electro-mechanical timer		Standard	Standard	N/A	N/A
Integral 7 day electronic timer		Optional	Optional	N/A	N/A
Wireless programmable room thermostat		Optional	Optional	N/A	N/A
Gas					
Natural gas		Yes	Yes	Yes	Yes
Inlet supply pressure (natural gas)	mbar	20	20	20	20
Gas rate	m^3/hr	2.76	3.17	2.76	3.1
Heat input (maximum)	kW	28.92	32.54	28.92	32.54
Heat output – condensing (maximum)	kW	26.95	30.2	26.95	30.2
Heat output – condensing (minimum)	kW	8.37	9.42	8.37	9.42
Heat output – non-condensing (maximum)	kW	25.94	28.63	25.94	28.63
Heat output – non-condensing (minimum)	kW	7.61	8.56	7.61	8.56
Domestic hot water flow rate (maximum) @ 35°c rise	litres/min	10.2	12.3	N/A	N/A
Domestic hot water flow rate (minimum)	litres/min	2	2	N/A	N/A
SEDBUK (2005)		91.0%	A-90.1%	A-91.1%	A-90.2%
SEDBUK (2009)		89.0%	88.7%	89.0%	88.7%
NO_X	Class	5	5	5	5
Electrical					
Electrical supply	Volts/Hz	230/50	230/50	230/50	230/50
Power consumption	Watts	150	150	150	150
External fuse rating	Amps	3	3	3	3
Ingress protection rating (as supplied)		IPX4D	IPX4D	IPX4D	IPX4D
Pump overrun		Yes	Yes	Yes	Yes
24hr pump exercise		Yes	Yes	Yes	Yes
Integral frost thermostat (boiler protection only)		Yes	Yes	Yes	Yes
Weight					
Installation lift weight	kg	47.5	47.5	44.5	44.5
Mechanical & hydraulic					
DHW system pressure (maximum)	bar	8	8	N/A	N/A
DHW operating pressure (minimum)	bar	0.15	0.15	N/A	N/A
Safety pressure discharge	bar	3	3	3	3
Integral automatic bypass		Yes	Yes	Yes	Yes
CH system capacity (maximum)	litres	125	155	125	155
Gas supply pipe size	mm	22	22	22	22
Flow & return pipe size (CH)	mm	22	22	22	22
Flow & return pipe size (DHW)	mm	15	15	N/A	N/A
Filling loop		Standard	Standard	Optional	Optional
Compartment ventilation required		No	No	No	No
Pre-plumbing jig		Standard	Standard	Standard	Standard
Flue systems					
Standard concentric flue diameter	mm	60/100	60/100	60/100	60/100
Maximum equivalent length (60/100)	m	10	10	10	10
Stand off bracket					
Combi and system boilers 5117035		Optional	Optional	Optional	Optional

HE A SPECIFICATIONS

Model	Units	Main 12 HE A	Main 15 HE A	Main 18 HE A	Main 24 HE A	Main 30 HE A
Part number		720357201	720357301	720357401	720357501	720357601
Controls						
Concealed user controls		Yes	Yes	Yes	Yes	Yes
LED operating status display		Yes	Yes	Yes	Yes	Yes
Gas						
Natural gas		Yes	Yes	Yes	Yes	Yes
Inlet supply pressure	mbar	20	20	20	20	20
Maximum gas rate	m^3/hr	1.34	1.64	1.94	2.31	2.95
Central heating input (max)	kW	13.34	16.9	20.2	24.5	33.8
Central heating output – condensing (max)	kW	12.81	16.5	19.3	23.8	32.6
Central heating output – non condensing (max)	kW	11.82	15.2	17.8	22	30.2
SEDBUK (2005)		90.5%	91.3%	90.4%	90.9%	90.9%
SEDBUK (2009)		88.7%	89.0%	88.7%	88.8%	88.8%
NOx class		5	5	5	5	5
Electrical						
Electrical supply	Volts/Hz	230/50	230/50	230/50	230/50	230/50
Permanent live required		No	No	No	No	No
Power consumption	Watts	80	80	80	80	80
External fuse rating	Amps	3	3	3	3	3
Boiler IPX rating (electrical protection)		IPX2	IPX2	IPX2	IPX2	IPX2
Integral 'boiler only' frost thermostat		No	No	No	No	No
Weight						
Maximum installation lift weight	kg	26	26	26	26	26
Mechanical & hydraulic						
Gas supply connection		1/2" BSPT	1/2" BSPT	1/2" BSPT	1/2" BSPT	1/2" BSPT
Central heating connections	mm	22	22	22	22	22
Condensate drain connection		1" BSP	1" BSP	1" BSP	1" BSP	1" BSP
Compartment ventilation required		No	No	No	No	No
Flue systems						
Concentric flue diameter	mm	70/110	70/110	70/110	70/110	70/110
Max. equivalent horizontal length (70/110)	m	4	4	4	4	4
Max. equivalent vertical length (70/110)	m	4	4	4	4	4
Twin flue system						
Twin pipe flue diameter	mm	80/80	80/80	80/80	80/80	80/80
Max. equivalent vertical length	m	75	75	75	75	75
Max. equivalent horizontal length	m	75	75	75	75	75
Plume displacement kit						
Max. equivalent vertical length	m	29	29	29	29	22

THE MAIN UNVENTED CYLINDER

Easy installation

- Front access to controls and connections for easy installation.
- Designed to work with the Main HE A and Main System Eco Elite range of boilers providing you with the complete solution to your project, with no compatibility issues.

Energy efficient

- Coil-in-coil heat exchanger ensures rapid heat recovery while promoting energy efficiency.
- All cylinders are manufactured in the UK where we inject 50mm of polyurethane foam between the cylinder and the casing to increase insulation and save energy.

Low maintenance

- High grade stainless steel inner cylinder prolongs product life and ensures low maintenance.
- The incoloy 800 alloy sheathed elements are designed to resist corrosion, a common problem with other unvented cylinders.
- Our indirect heating coil is fitted with an electric immersion heater as back up, leaving you and your customers confident they will have hot water whenever they need it.
- We're so confident of the quality of our unvented cylinder, we offer a one year parts and labour warranty, and will guarantee the stainless steel shell for a further 24 years†.

† See page 27 for more details.

For specifications please see pages 14-15.

PERFECT FOR YOUR CUSTOMERS:

- **Replacing existing cylinders**
- **Suitable for low mains pressure areas**
- **Ideal for homes with more than one bathroom**
- **Indirect and direct models available**

Compatible with:	
	Main System Eco Elite
	Main HE A

MAIN
JOB DONE
WARNING
DISCONNECT FROM THE MAINS BEFORE REMOVING COVER.
INLET
25-YEAR† WARRANTY

SPECIFICATIONS

Element – Long-life removable Incoloy 800 sheathed element, rated 3.0kW @ 240V. Direct models are fitted with two 3.0kW immersion heaters as standard.

Outer casing – A combination of resilient thermoplastic mouldings and plastic coated corrosion proofed steel sheet.

Thermal insulation – CFC/HCFC free (ODP ZERO) fire retardant expanded polyurethane. 50mm thickness.

Inner container – High grade stainless steel, pressure tested to 15 bar.

Primary coil – 22mm diameter stainless steel. Coil-in-coil design for improved performance.

Thermostat – Element thermostat adjustable from 10°C to 70°C.

Safety features – Temperature and pressure relief valve, factory set to operate at 10 bar and 90°C. High limit thermostat, factory set at 80°C. Direct models – Manually re-settable cut-out on heating element operates at 80°C.

Indirect models – Must be wired in series with the supplied two-port motorised valve to provide primary over temperature protection.

Anode – None required.

Approvals – KIWA approved for water regulations and building regulation G3. Manufactured in the UK in a BS EN ISO 9001:2008 registered factory. CE marked for compliance with LVD, EMC & pressure equipment directives.

Installation

Main unvented cylinders must be installed by a competent installer in accordance with local regulations:

England & Wales – Building regulation G3.

Scotland – Technical standards P3.

N. Ireland – Building regulation P5.

Fixing – Feet on bottom moulding for floor mounting.

Plumbing connections – Inlet/Outlet, 22mm compression fittings / 3/4" BSP parallel thread.

Primary coil – 22mm compression fittings / 3/4" BSP parallel thread.

Temperature and pressure relief valve – 15mm compression outlet.

Cold water control – Integrated cold water control set comprising pressure reducing valve and strainer – factory set at 3.5 bar, expansion relief valve – factory set at 6 bar and check valve. 22mm compression fittings.

Mains pressure – Min 1.5 bar, Max 16 bar. A 2-port motorised valve is supplied with indirect models.

Flow rates – Up to 55 litres per minute @ 6 bar pressure.

Operating pressure – 3.5 bar.

Expansion relief valve pressure – 6.0 bar.

Operating temperature – Recommended 60°C. Adjustable 10-70°C.

Water expansion – Remote expansion vessel
12 litre vessel supplied with 120 and 150 litre models.
18 litre vessel supplied with 170 and 210 litre models.
24 litre vessel supplied with 250 and 300 litre models.

Minimum water supply requirements – Recommended minimum supply pressure – 1.5 bar/20 l/min flow rate.

If there are any doubts about water supply pressure or flow rates, please contact our Specification Advice Team to discuss on 0845 026 4620.

Secondary circulation – Via 22 x 22 x 15mm swept tee, which should be fitted to the inlet pipework. Secondary Circulation is not recommended for direct units being used with off-peak electricity tariffs.

Pressure testing – Units are tested to 15 bar.

Tundish – 15mm compression inlet and 22mm compression outlet.

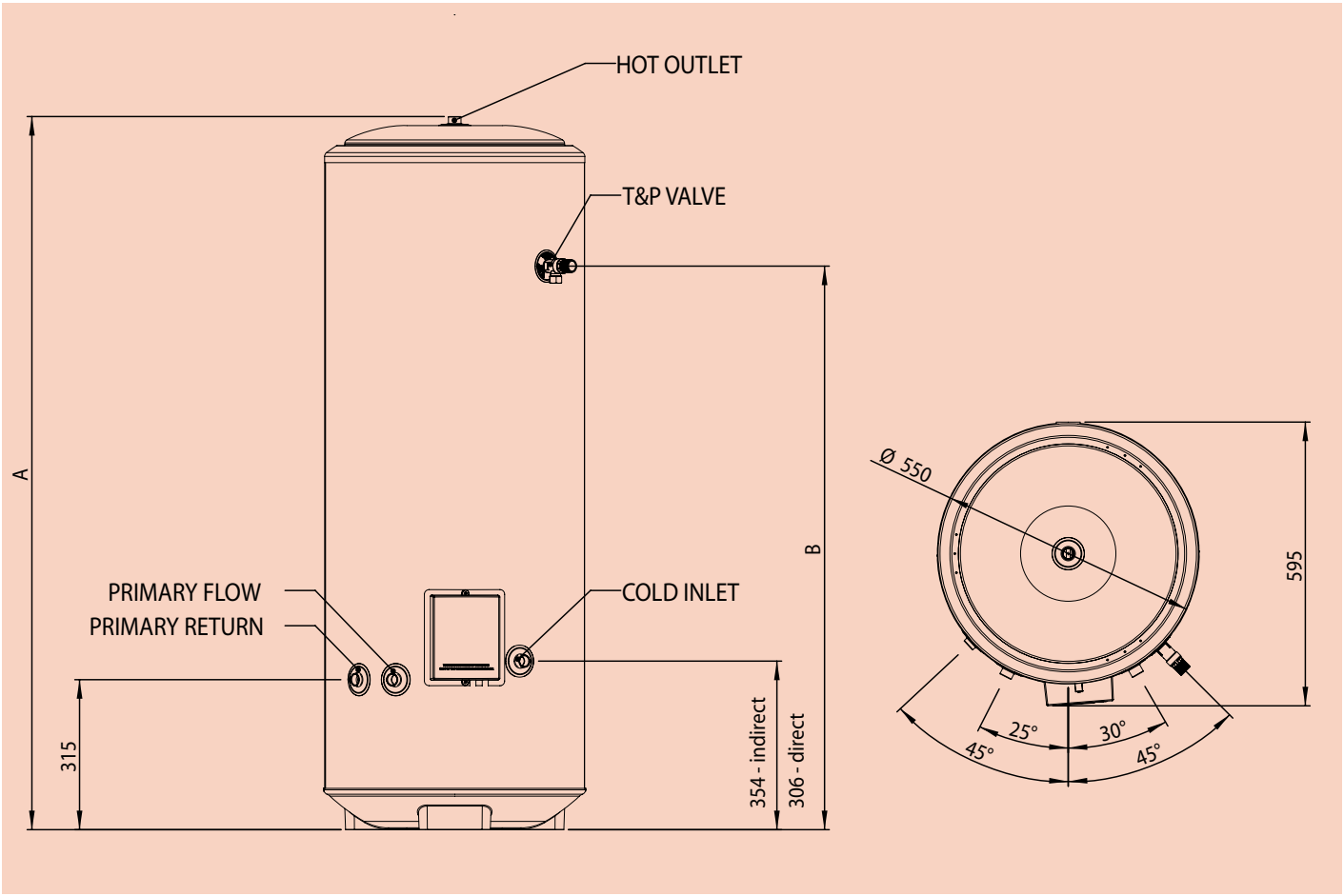
Electrical

Indirect models – Controls should be wired to the boiler, programmer etc., in accordance with the control scheme being used.

Direct models – Connection is direct to terminals in the immersion heater which must be permanently connected to the supply through a double-pole lined isolating switch with a minimum breaking capacity of 13A.

All electrical wiring must conform to the latest IEE Wiring Regulations.

Dimensions and performance



Nominal Capacity (litres)	Type		Dimensions (mm)		Coil			Heating Time Direct (mins)	Product Code	Standing Heat Loss Per Day (kWh/24h)
	Direct	Indirect	A	B	Rating (kW)	Heat Up Time (mins)	Recovery (mins)			
120		✓	930	615	12.5	27	23	110	5133561	1.47
150		✓	1114	800	12.5	38	24	142	5133562	1.70
170	✓		1240	925				163	720636101	1.92
170		✓	1240	925	16.0	33	25		5133563	
210	✓		1498	1184				205	720636201	2.30
210		✓	1498	1184	16.0	41	29		5133564	
250		✓	1752	1378	18.0	40	30	252	5135327	2.22
300		✓	2067	1693	19.0	47	35	304	5135328	2.52

Unvented cylinder specification enquiries

Telephone: 0845 026 4620.

THE MAIN SOLAR THERMAL UNVENTED HOT WATER CYLINDER

Energy efficient

- Unlike some other ‘twin coil’ cylinders, our cylinders have a purpose designed solar heating coil at the base of the cylinder, ensuring maximum heat input and efficiency from the solar source.

Easy installation

- Comes with all the benefits of the Main unvented cylinder plus a whole lot more.
- Designed specifically for solar applications to make sure it does the job perfectly.
- To make things simple, the Main solar cylinder is compatible with most solar thermal systems now available in the UK.
- The remote expansion vessel can be located in various places, to suit your installation requirements.

Low maintenance

- High grade stainless steel inner cylinder prolongs product life and ensures low maintenance.
- We’re so confident of the quality of our unvented cylinder, we offer a one year parts and labour warranty, and will guarantee the stainless steel shell for a further 24 years†.

† See page 27 for more details.

For specifications please see page 18-19.

PERFECT FOR YOUR CUSTOMERS:

- **Provides energy efficient domestic hot water**
- **Fast filling showers and baths**
- **Powerful hot water from your solar thermal water heating system**

Compatible with:	
	Main System Eco Elite
	Main HE A

*Savings vary depending on type of solar system used, location and usage patterns.

MAIN
SOLAR
JOB DONE
WARNING
DISCONNECT
FROM THE MAINS
BEFORE REMOVING
COVER
INLET

SPECIFICATIONS

Siting the unit

The Main solar cylinder must be installed vertically. Although location is not critical, the following points should be considered:

- The Main solar cylinder should be sited to ensure minimum dead leg distances, particularly to the point of most frequent use.
- Avoid siting where extreme cold temperatures will be experienced. All exposed pipework should be insulated.
- The discharge pipework from the safety valves must have minimum fall of 1:200 from the unit and terminate in a safe and visible position.
- Access to associated controls and immersion heaters must be available to provide for the servicing and maintenance of the system. Where these controls are installed against a wall a minimum distance of 250mm must be left.
- Ensure that the floor area for the Main solar cylinder is level and capable of permanently supporting the weight when full of water.
- Wherever possible the mains supply pipe should be 22mm. We suggest the minimum supply requirements should be 1.5 bar pressure and 20 litres per minute flow rate.
- The Main solar cylinder has an operating pressure of 3.5 bar which is controlled by the cold water combination valve assembly. The cold water combination valve assembly can be connected to a maximum mains pressure of 16 bar.

Outlet/terminal fittings (taps, etc.)

- The Main solar cylinder can be used with most types of terminal fittings.
- All fittings, pipework and connections must have a rated pressure of at least 6 bar at 80°C.

Operational summary

Maximum mains pressure 16 bar

Operating pressure 3.5 bar

Expansion vessel charge pressure 3.5 bar

Expansion relief valve setting 6 bar

T&P relief valve setting 90°C/10 bar

Maximum primary circuit pressure

(auxiliary coil, indirect only) 3 bar

Maximum primary circuit pressure 6 bar (Solar coil)

Important note:

THE MAIN SOLAR CYLINDER MUST BE INCORPORATED INTO A FULLY PUMPED SOLAR PRIMARY CIRCUIT. CONTROL OF THE SOLAR PRIMARY IS ACHIEVED BY THE USE OF EXTERNAL CONTROLS NOT SUPPLIED WITH THE UNIT. CONTROL MUST BE VIA A PURPOSE DESIGNED SOLAR HYDRAULIC STATION AND SOLAR DIFFERENTIAL TEMPERATURE CONTROLLER.

Pipe fittings

All pipe fittings are made via 22mm compression fittings directly to the unit. The fittings are threaded 3/4" BSP male parallel should threaded pipe connections be required.

Cold feed

A 22mm cold water supply is recommended, however if a 15mm (1/2") supply exists which provides sufficient flow this may be used (although more flow noise may be experienced).

A stopcock or servicing valve should be incorporated into the cold water supply to enable the Main solar cylinder and its associated controls to be isolated and serviced.

Drain tap

A suitable draining tap should be installed in the cold water supply to the Main solar cylinder unit between the expansion valve and the heater at as low a level as possible. It is recommended that the outlet point of the drain pipework be at least 1 metre below the level of the heater.

Expansion vessel

The expansion vessel is pre-charged at 3.5 bar and must be connected between the expansion valve and the Main solar cylinder.

Secondary circulation

The secondary return pipe should be in 15mm pipe and incorporate a check valve to prevent backflow. A suitable WRAS approved bronze circulation pump will be required.

Outlet

Hot water distribution pipework should be 22mm pipe with short runs of 15mm pipe to terminal fittings such as sinks and basins.

Installation

Connection to solar primary circuit

The lower (solar) coil of the Main solar cylinder must be connected to a fully pumped solar primary circuit. The connections are suitable for 22mm copper pipe direct to the compression fittings provided. The connections are also threaded 3/4" BSP male parallel should BSP be required.

Plumbing connections

Direct units require the following pipework connections.

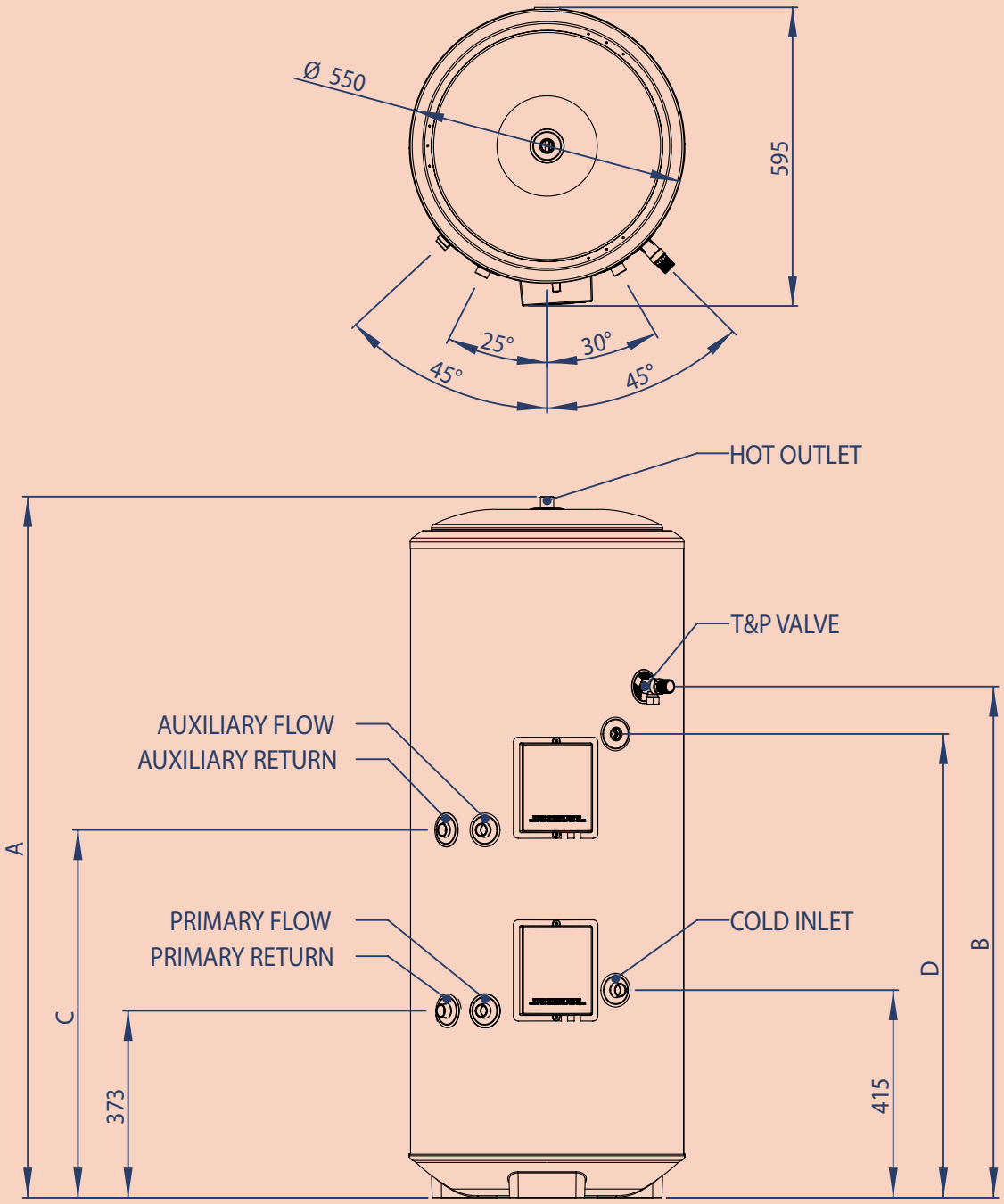
- Cold water supply to and from inlet controls.
- Outlet to hot water draw off points.
- Discharge pipework from valve outlets to tundish.
- Connection to the auxiliary primary circuit (Auxiliary/Indirect unit only).

Primary connections are 22mm compression. However, 3/4" BSP parallel threaded fittings can be fitted to the primary coil connections if required.

Electrical supply

Main solar units are fitted with 13kW immersion heater on indirect units and 23kW immersions on direct units as standard. The Main solar cylinder MUST be earthed. The circuit must be protected by a suitable fuse and double pole isolating switch with a contact separation of at least 3mm in both poles.

Dimensions and performance



Nominal capacity (litres)	Type	Dimensions (mm)				Solar coil surface area (m^2)	Auxiliary volume (litres)	Auxiliary coil				Product code
	Indirect	A	B	C	D			Surface area (m^2)	Rating (kW)	Heat up (mins)	Recovery (mins)	
210	✓	1499	1184	1011	1095	1.1	120	0.68	15.2	33	17	720634801
250	✓	1751	1391	1142	1258	1.1	145	0.79	15.2	40	21	720634901
300	✓	2065	1715	1439	1574	1.1	175	0.79	17.4	42	22	720635001

THE MAIN WATER HEATER

PERFECT FOR YOUR CUSTOMERS:

- **Provides businesses and small households with high hot water demand**
- **It only heats the water needed for greater efficiency**
- **Creates space - no need for a storage cylinder**

Quality you can trust

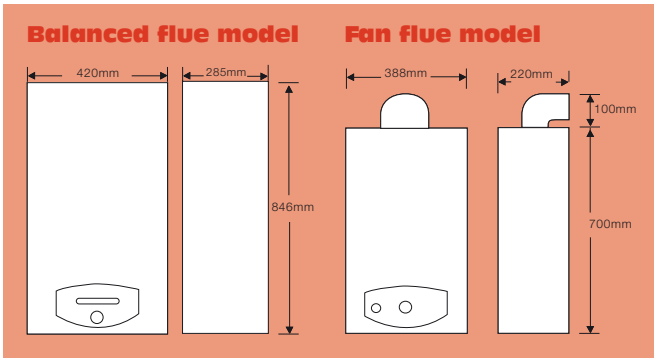
- Main has an unrivalled reputation for offering reliable, safe, efficient and easy-to-use water heaters.

Easy installation

- Installation is straightforward, thanks to the simple 3-pipe connections with isolation valves, pre-wired standard plug (FF) and flexible flueing options.
- Ideal in homes with high hot water demand, the Main FF (Fan Flue) and Main BF (Balanced Flue) Water Heaters provide instantaneous hot water without the need for a storage cylinder.
- If you need to locate the heater away from an external wall, the FF model is perfect. It has a 4-metre horizontal and vertical flue option making siting easy.
- The BF option comes with a Piezo Spark Igniter, meaning no batteries or wiring are needed – and both models have clear temperature controls.

Low maintenance

- The key to our success is the simplicity of our products. They do exactly what you need them to do and they do it reliably. That means you waste less time and money dealing with call backs and maintenance issues.



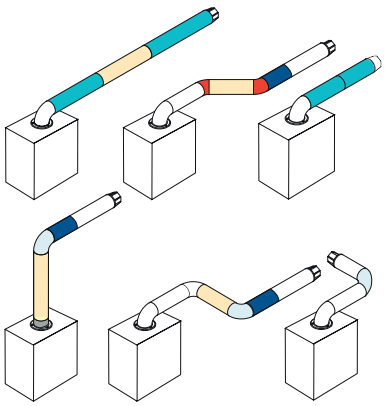
Flue options – balanced flue system

Telescopic flue available in four length options to suit wall thickness from 100mm to 610mm:	
	Sales Code
Min. length 100mm (4 in.)	31/10321
Max. length 150mm (6 in.)	
Min. length 150mm (6 in.)	31/10322
Max. length 230mm (9 in.)	
Min. length 230mm (9 in.)	31/10323
Max. length 380mm (15 in.)	
Min. length 380mm (15 in.)	31/10324
Max. length 610mm (24 in.)	
The appliance may be mounted on a suitable existing terminal as above, provided the requirements of the building regulations are maintained.	

SPECIFICATIONS

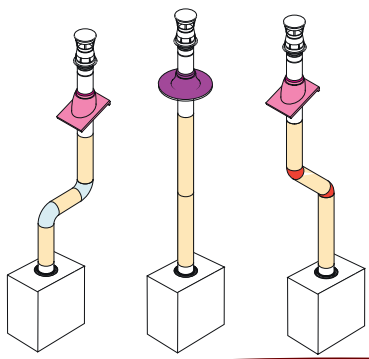
Model	Units	Balanced Flue Model	Fan Flue Model
Model name		Multipoint BF	Multipoint FF
Water heater code		5110173	5110174
Min service clearance above	mm	30mm	120mm (Includes flue elbow)
Min service clearance sides	mm	5mm	10mm
Min service clearance in front	mm	600mm	600mm
Min service clearance below	mm	75mm	50mm
Max DHW flow rate (Delta T @ 30°C max)	l/min	10.8 l/min	11.7 l/min
Max DHW flow rate (Delta T @ 35°C max)	l/min	9.3 l/min	10 l/min
Max DHW flow rate (Delta T @ 50°C max)	l/min	6.5 l/min	7 l/min
Min operating DHW pressure required	bar	0.2 bar	0.3 bar
Max DHW system pressure	bar	12 bar	12 bar
Minimum flow rate required	l/min	2.5 l/min	2.5 l/min
IP rating		N/A	IPX4D
Gas			
Natural gas		Yes	Yes
Heat input (net)	kW	25.5	27
Heat output to water	kW	23	23.8
Electrical			
Electrical connection	V	None	230 fused UK plug
Mechanical & Hydraulic			
Gas connection pipe size	mm	15	15
Water connection pipe size	mm	15	15
Flue Systems			
Maximum equivalent length horizontal	mm	610	4000
Maximum equivalent length vertical	mm	N/A	4000
Weight			
Installer lift weight	kg	20	20

Concentric horizontal flues – water heaters



Concentric horizontal flue arrangement	Key & OD dimension	Multifit sales code
Standard horizontal flue kit	400mm	430183
Horizontal flue kit (long)	680mm	430184
Flue extension	1000mm	B4286
90 bend kit		31/19034
135 bend kit		31/19035
Telescopic flue elbow adaptor		430174
Vertical adaptor		238014

Concentric vertical flues – water heaters



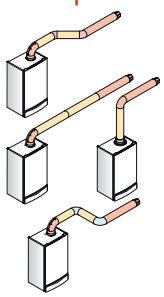
Concentric vertical flue arrangement	Key & OD dimension	Multifit sales code
Concentric vertical flue kit		238015
Flue extension	1000m	B4286
90 bend kit		31/19034
135 bend kit		31/19035
Flat roof flashing kit		31/19040
Pitched roof flashing kit		31/19041

Please refer to page 22 for flue positioning guide.

MULTIFIT – ECO ELITE FLUE OPTIONS

Horizontal concentric flues – 60/100mm

Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

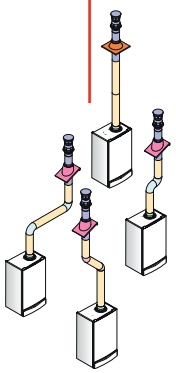


Item description (MULTIFIT) flue system A	Specification	Key & OD dimensions	Multifit sales code
Standard horizontal flue inc elbow	685mm	60/100	5118489
Flue extension	1000mm	100mm	5111074
Flue bend	93°	100mm	5111075
Flue bend (pair)	135°	100mm	5111085
Flue bend	135°	100mm	5111076
Pipe support	Painted white	100mm	5111080
Flue through wall liner		100mm	5111067
Flue terminal deflector		60mm	5111068
Flue vertical adaptor (boiler)	Main HE only	100mm	5111065

The 3° fall back on concentric flues can be reduced to 1.5° providing the flue system is adequately clamped in accordance with the installation instructions.

Vertical concentric flues – 60/100mm

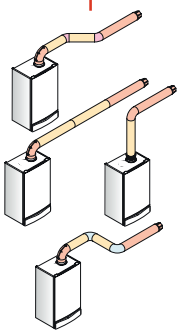
Flue system A – Maximum permissible equivalent flue length = 10m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.



Item description (MULTIFIT) flue system A	Specification	Key & OD dimensions	Multifit sales code
Vertical flue terminal		125mm	5118576
Roof cover plate	4"	125mm	246143
Flue bend	93°	100mm	5111075
Flue bend	135°	100mm	5111076
Flue bend pair	135°	100mm	5111085
Flue extension	1000mm	100mm	5111074
Pipe support	Painted white	100mm	5111080
Pitched roof flashing	25/50°	125mm	5122151
Flat roof flashing		125mm	246144
Flue vertical adaptor (boiler)	Main HE only	100mm	5111065

Horizontal concentric flues – 80/125mm

Flue system G – Maximum permissible equivalent length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.

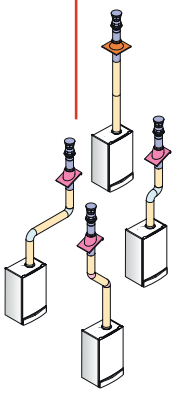


Item description (MULTIFIT) flue system G	Specification	Key & OD dimensions	Multifit sales code
Standard horizontal flue inc elbow	685mm	80/125	5118580
Flue extension	1000mm	125mm	5118584
Flue bend	93°	125mm	5118588
Flue bend (pair)	135°	125mm	5118597
Pipe support	Painted white	125mm	5118610

The 3° fall back on concentric flues can be reduced to 1.5° providing the flue system is adequately clamped in accordance with the installation instructions.

Vertical concentric flues – 80/125mm

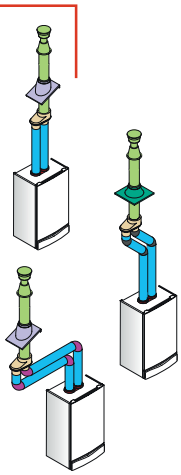
Flue system G – Maximum permissible equivalent length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.5m, 93° bend – 1.0m.



Item description (MULTIFIT) flue system G	Specification	Key & OD dimensions	Multifit sales code
Vertical flue terminal		125mm	5111078
Vertical flue adaptor		125mm	5111070
Roof cover plate		125mm	246143
Flue bend	93°	125mm	5118588
Flue bend pair	135°	125mm	5118597
Flue extension	1000mm	125mm	5118584
Pipe support	Painted white	125mm	5118610
Pitched roof flashing	25/50°	125mm	5122151
Flat roof flashing		125mm	246144

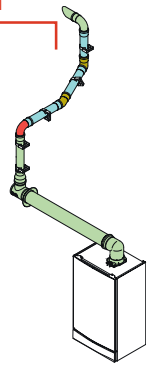
Twin pipe flues – 80/80mm

Maximum permissible equivalent flue length = 20m. Any additional 'in line' bends in the flue system must be taken into consideration. The equivalent lengths for concentric pipes are: 135° bend – 0.25m, 90° bend – 0.5m.



Item description (MULTIFIT) flue system N	Specification	Key & OD dimensions	Multifit sales code
Twin pipe flue adaptor (boiler)		80/80mm	720089801
Twin to concentric adaptor 80/80 – 80/125		80/125mm	5111084
Twin pipe flue bend (pair)	90°	80mm	5111072
Twin pipe flue bend (2 pair)	135°	80mm	5111086
Twin pipe extension (pair inc brackets)	1000mm	80mm	5111087
Twin pipe support (pair)	Painted white	80mm	5111081
Vertical flue terminal		125mm	5111078
Roof cover plate		100mm	246143
Pitched roof flashing		125mm	5122151
Flat roof flashing	25/50°	125mm	246144

Plume displacement kits – 60/100mm



Item Description (MULTIFIT) flue system K	Specification	Key & OD dimensions	Multifit sales code
Plume displacement kit inc elbow + clips		100mm	5118638
Plume displacement kit extension + clips	1000mm	60mm	5121368
Plume displacement kit bend	93°	60mm	5121369
Plume displacement kit bend (pair)	135°	60mm	5121370

Flue options

Concentric flue
The maximum equivalent lengths are 4m (horizontal and vertical). These lengths exclude the standard elbow and flue/terminal assembly (horizontal) and terminal assembly (vertical).

Twin flue
The total maximum equivalent flue length is 75m.
Note: Air and flue tubes parallel.

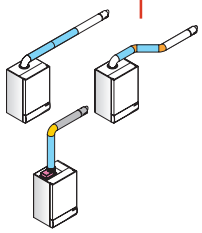
Any additional 'in line' bends in the flue system must be taken into consideration. Their equivalent lengths are:

Concentric pipes:	135° bend	0.5m
	93° bend	1.0m
Twin flue pipe:	135° bend (air duct)	1.3m
	135° bend (flue duct)	2.6m
	90° bend (air duct)	4.8m
	90° bend (flue duct)	9.6m

Detailed examples of equivalent flue length calculations are given in the Installation Guidance Notes for each flue system type (Documents 243501 and 243502 for concentric and twin pipe respectively).

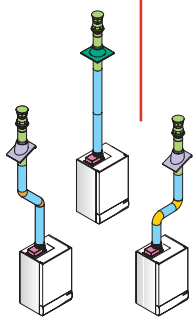
MULTIFIT – HE A FLUE OPTIONS

Horizontal concentric flues – 70/110mm



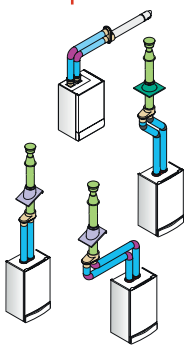
Item description (MULTIFIT) flue system B	Specification	Key & OD dimensions	Multifit sales code
Standard horizontal flue inc elbow	850mm	110mm	236921
Horizontal flue/wall terminal	850mm	110mm	243013BAX
Flue extension	1000mm	110mm	241695
Flue extension	500mm	110mm	241694
Flue extension	250mm	110mm	241692
Flue bend	90˚	110mm	241687
Flue bend (pair)	135˚	110mm	241689
Flue terminal deflector		70mm	248167
Vertical flue adaptor (boiler)		110mm	5106888
Pipe support	Painted white	110mm	243014BAX

Vertical concentric flues – 70/110mm



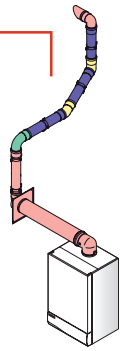
Item description (MULTIFIT) flue system B	Specification	Key & OD dimensions	Multifit sales code
Vertical roof terminal		70/110mm	242802
Vertical flue adaptor (boiler)		110mm	5106888
Flue extension	1000mm	110mm	241695
Flue extension	500mm	110mm	241694
Flue extension	250mm	110mm	241692
Flue bend	90˚	110mm	241687
Flue bend (pair)	135˚	110mm	241689
Roof cover plate			243131
Pipe support	Painted white	110mm	243014BAX
Flat roof flashing		125mm	243016BAX
Pitched roof flashing	25/50˚	125mm	243015

Twin pipe flues – 80/80mm



Item description (MULTIFIT) flue system P	Specification	Key & OD dimensions	Multifit sales code
Horizontal flue terminal	850mm	110mm	243013BAX
Vertical roof terminal		70/110mm	242802
Twin pipe flue extension	1000mm	80mm	246137
Twin pipe flue extension	500mm	80mm	246136
Twin pipe flue extension	250mm	80mm	246135
Twin pipe flue bend (2 pair)	135˚	80mm	5121561
Twin pipe flue bend (pair)	90˚	80mm	5121560
Twin pipe support (pair)	Painted white	80mm	5111081
Pipe support	Painted white	110mm	243014BAX
Pitched roof flashing	25/50˚	125mm	243015
Flat roof flashing		125mm	243016BAX
Twin pipe flue adaptor set		80/80mm	242757
Flue terminal deflector			248167
Roof cover plate			243131

Plume displacement kits – 70/110mm to 70mm PDK

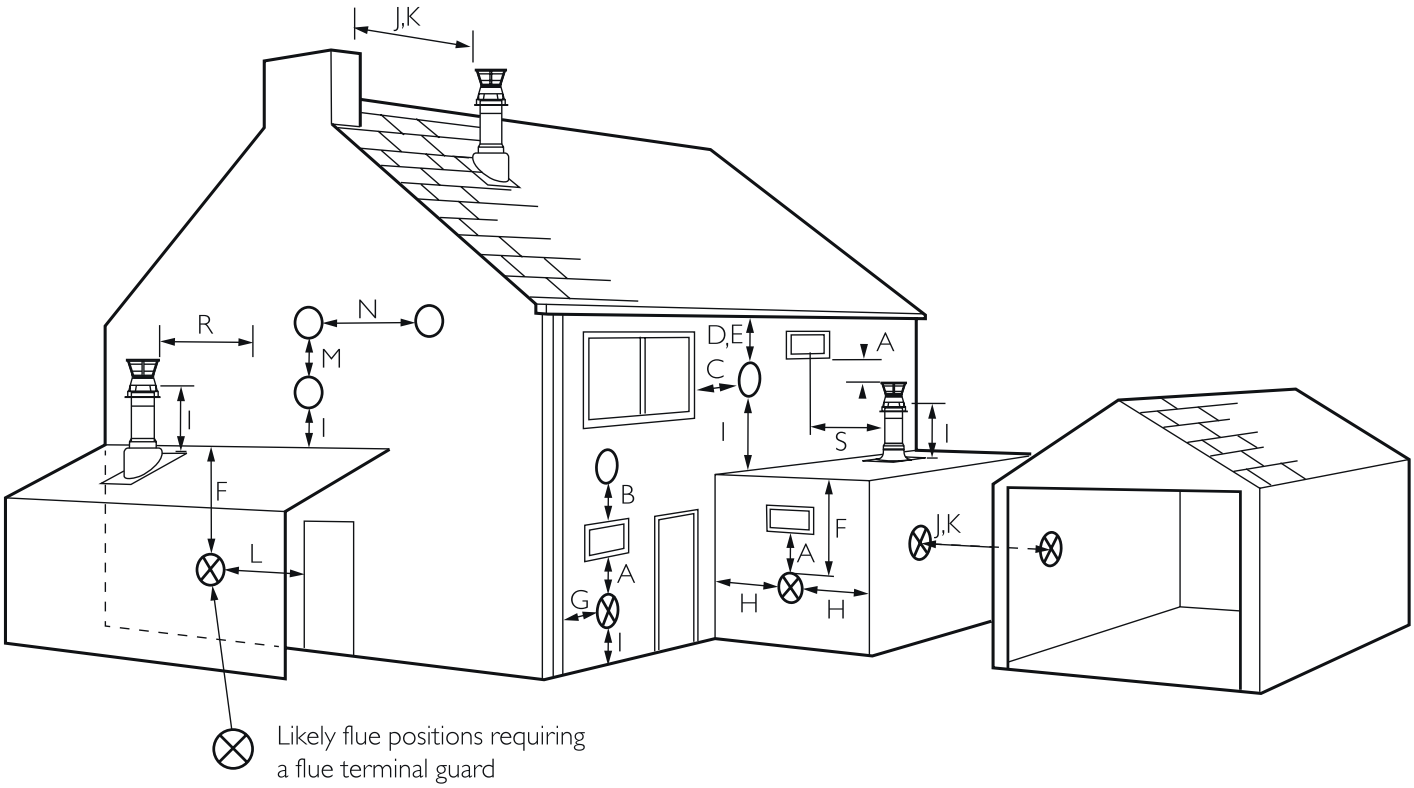


Item description (MULTIFIT) flue system L	Specification	Key & OD dimensions	Multifit sales code
Plume displacement kit inc elbow & clips	All HE Plus	110mm	5121371
Plume displacement kit extension inc clip	1000mm	70mm	5121372
Plume displacement kit bend	93˚	70mm	5121373
Plume displacement kit bend (pair)	135˚	70mm	5121374

Flue options

Maximum permissible equivalent flue lengths are:	Units	Main Combi 25 Eco Elite	Main Combi 30 Eco Elite	Main System 24 Eco Elite	Main System 28 Eco Elite
Concentric horizontal (60/100)	m	10	10	10	10
Concentric vertical (60/100)	m	10	10	10	10
Concentric horizontal (80/125)	m	20	20	20	20
Concentric vertical (80/125)	m	20	20	20	20
Twin pipe vertical (80/80)	m	20	20	20	20
Any additional “in line” bends in the flue system must be taken into consideration. Their equivalent lengths are:					
Concentric pipes					
135° bend	m	0.5	0.5	0.5	0.5
93° bend	m	1	1	1	1
Twin flue pipe					
135° bend	m	0.25	0.25	0.25	0.25
90° bend	m	0.5	0.5	0.5	0.5
The elbow supplied with the standard horizontal flue is not included in any equivalent length calculations.					

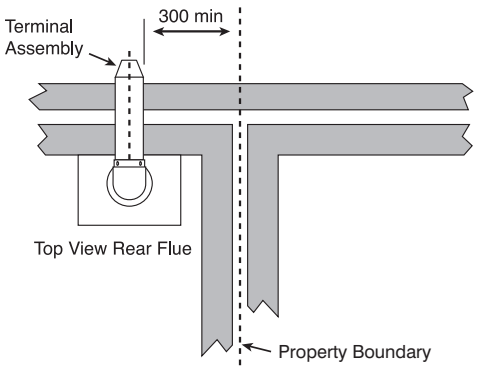
FLUE POSITIONING GUIDE



Terminal position with minimum distance (mm)

A*	Directly below an opening, air brick, opening window etc.	300
B*	Above an opening, air brick, opening window etc.	300
C*	Horizontally to an opening, air brick, opening window etc.	300
D	Below gutters, soil pipes or drain pipes.	150
E	Below eaves.	200
F	Below balconies or carport roof.	200
G	From a vertical drain pipe or soil pipe.	150
H	From an internal (i) or external (ii) corner.	300
I	Above ground, roof or balcony level.	300
J	From a surface or boundary line facing a terminal.	600
K	From a terminal facing a terminal (horizontal flue).	1200
	From a terminal facing a terminal (vertical flue).	600
L	From an opening in carport (e.g. door, window) into the dwelling.	1200
M	Vertically from a terminal on the same wall.	1500
N	Horizontally from a terminal on the same wall.	300
R	From adjacent wall to flue (vertical only).	300
S	From an adjacent opening window (vertical only).	1000

*In addition, the terminal should be no nearer than 150mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame. See BS 5440 Pt1.



NOTE: The distance from a fanned draught appliance terminal installed parallel to a boundary may not be less than 300mm in accordance with the diagram above, unless the flue deflector kit is used. This can then be reduced to a min of 25mm.

= **Reduced clearances:** This range of boilers has been tested and approved for use with certain clearances less than those shown. Horizontal flues in positions D, E, F, G & H(i) may be reduced to 25mm. H(ii) may only be reduced to 115mm. **Only one of these reductions may be used on a single installation.**

CONTROLS

THE PERFECT ACCESSORIES:

- **Maximise your customers' energy saving**
- **Easy to commission**
- **Increase your revenue stream**

	Wireless electronic digital room thermostat • Portable room thermostat for ease of use and greater comfort • 7 day programme time and temperature control • Easy to read backlit LCD display • Easy to use Digital & Dial control • Perfect for fully personalised comfort and energy saving	720030701
	Integral electronic timer • 7 day programme time and temperature control • Easy to read backlit LCD display • Multiple on/off switching operations • Advanced switch programme	247207
	Integral electro mechanical time clock • Electro-mechanical 24 hour timer • Selection of on/off control • Stappets set around an analogue clock for the utmost simplicity	247206
	Wireless (RF) electro mechanical room thermostat • Wireless programmable room thermostat • Minimises problems of compliance with building regulations Part L (Energy Conservation) & Part P (Electrical Safety) • As simple to fit as it is to use.	5117393

THE LOYALTY SCHEME FROM MAIN

Welcome to the loyalty scheme from Main. It's called works and it's simple, easy to join and it gives you reward points for every single Main boiler or cylinder you purchase. You even earn reward points for building relationships with Main and other installers!

THE BENEFITS TO YOU.

Great rewards from the personal shopping catalogue

Use Business Points to gain rewards for you or your business. Perfect if you need some new workwear – or it's the wife's birthday!

Free Gas Safe Notification

Every boiler registration is automatically linked to the Gas Safe Register – saving you time and money.

Next day call out

Get total peace of mind with a next day call out service from our award-winning heateam service division.

Annual service reminder

No need to remind customers when their annual service is due – we'll prompt them to call YOU.*

Be on 'Find an installer'

Find new customers and boost your business with a listing on our website.

Plus much much more!

Terms and conditions apply, visit works2gether.co.uk for full details.

*Available for registered boilers only. See website for details.

Sign up today!

Visit **works2gether.co.uk** to start earning rewards or speak to your local Main Area Sales Manager for further details.

THE MAIN REASSURING BACK-UP

heateam

0844 871 1570
www.heateam.co.uk

With call service support available 7 days a week, 363 days a year, **heateam** offers quick and effective servicing and maintenance support through over 270 highly trained heating experts across the country.

The Main trade technical helpline offers a range of free services to Main installers:

- In-warranty support
- Help with installation problems
- Boiler selection advice
- Fault-finding assistance
- Flue queries

heateam was recognised as one of the Top 50 Call Centres for Customer Service following the UK's biggest ever call centre benchmarking exercise.

The study was conducted by independent Market Research Company GfK Mystery Shopping and represents the largest ever mystery shopping exercise in the call centre industry. Over 18,500 mystery shopper enquiries were made to call centres participating in the Top 50 Call Centre for Customer Service Programme. Calls were scored according to five customer service categories: timeliness, ease of use, reliability, knowledgeable staff and personalised service.

heateam has been given this award for the last three years showing on-going commitment to providing top class service to all its customers.

national customer service awards 2010 WINNER

TOP 50 CALL CENTRES FOR CUSTOMER SERVICE

WARRANTY

Main: Giving you extra

Boilers

All Main boilers come with a 2 year parts and labour warranty as standard.

Cylinders

On site service support including parts and labour for 12 months from date of installation. After an initial 12 months, a parts only guarantee will apply for a further 24 years on the stainless steel shell.

Subject to registration and the replacement being carried out by one of our **heateam** engineers, for which reasonable labour charges will apply.

EXPERT TRAINING

As well as superb support and technical advice, Main gives you access to the very latest training on all our products. The courses are run by qualified instructors and cover everything from installation and commissioning to servicing and diagnostics – as well as current legislation, building regulations, energy efficiency, electronics, combi boilers, system design and condensing theory.

In short, you'll learn everything you need to install every product in the Main range successfully and profitably.

Training is available at any of our dedicated centres across the country:

• Cardiff • Coalville • Dartford • Eastleigh • Glasgow • Leeds
• Liskeard • Peterlee • Stockton-on-Tees • Warrington • Warwick

To book your place on a Main training course call: **0845 600 7402**

benchmark COLLECTIVE MARK
THE MARK OF QUALITY FOR THE INSTALLATION, COMMISSIONING AND SERVICING OF DOMESTIC HEATING AND HOT WATER SYSTEMS

Benchmark places responsibilities on both manufacturers and installers. The purpose is to ensure that customers are provided with the correct equipment for their needs, that it is installed, commissioned and serviced in accordance with the manufacturer's instructions by competent persons and that it meets the requirements of the appropriate Building Regulations. The Benchmark Checklist can be used to demonstrate compliance with Building Regulations and should be provided to the customer for future reference. Installers are required to carry out installation, commissioning and servicing work in accordance with the Benchmark Code of Practice which is available from the Heating and Hot water Industry Council who manage and promote the Scheme.

Visit **www.centralheating.co.uk** for more information.

Contacts

All enquiries

Tel: 0844 871 1570

Please note – calls to the service centre may be recorded or monitored.

Main

Brooks House, Coventry Road, Warwick CV34 4LL.

Website: **mainheating.co.uk**

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MAIN HEATING

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